

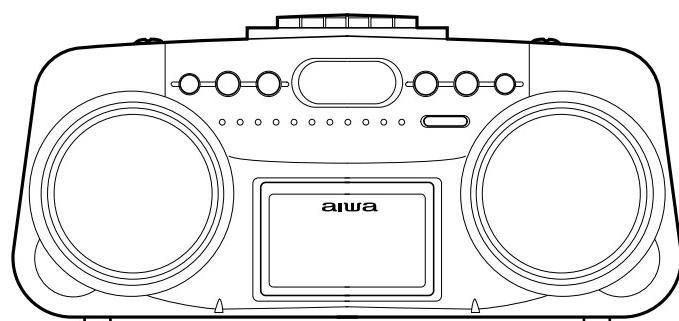


CSD-A220

CSD-A229

HA, LH

LH



SERVICE MANUAL

COMPACT DISC STEREO
RADIO CASSETTE RECORDER

BASIC TAPE MECHANISM : TN-21ZVC-2000
BASIC CD MECHANISM : DA11T3C

- This Service Manual is the “Revision Publishing” and replaces “Simple Manual” (S/M Code No. 09-002-427-8T1).

aiwa
S/M Code No. 09-005-427-8R1

REVISION
DATA

SPECIFICATIONS

Tuner section

Frequency range

FM : 87.5 MHz - 108.0 MHz

Antenna : Rod antenna

AM :

530 kHz - 1,710 kHz

Antenna : Ferrite bar antenna

Deck section

Track format

4 tracks, 2 channels

Frequency range

Normal tape : 50 Hz - 12,500 Hz (EIAJ)

Recording system

AC bias

Erasing system

Magnet erase

Heads

Recording/Playback head x 1/

Erasure head x 1

CD player section

Disc

Compact disc

Scanning method

Non-contact optical scanner
(semiconductor laser)

General

Speaker

100 mm cone type (2)

Output

Headphones jack (stereo mini-jack)

Power output

2.5 W + 2.5 W (EIAJ 7 ohms, THD 10%)

1.9 W + 1.9 W (DIN 1% Rated Power)

Power requirements

DC 12 V using eight size C (R14) batteries,

AC 110 - 120 V/220 - 240 V

switchable, 50/60 Hz

16 W

445 x 277 x 184 mm

Weight 3.7 kg (excluding batteries)

• Design and specifications are subject to change without notice.

ACCESSORIES / PACKAGE LIST

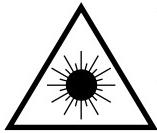
REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	8A-CD9-902-010	IB,LH(ESP)B<220LH,220HA>	
1	8A-CD9-940-010	IB,B-KIT<229LH>	
 2	87-A80-036-010	AC CORD SET ASSY,E W/FLTR VOL	
 3	87-A91-017-010	PLUG,CONVERSION JT-0476<220HA>	

PROTECTION OF EYES FROM LASER BEAM DURING SERVICING

This set employs laser. Therefore, be sure to follow carefully the instructions below when servicing.

WARNING!!

WHEN SERVICING, DO NOT APPROACH THE LASER EXIT WITH THE EYE TOO CLOSELY. IN CASE IT IS NECESSARY TO CONFIRM LASER BEAM EMISSION. BE SURE TO OBSERVE FROM A DISTANCE OF MORE THAN 30cm FROM THE SURFACE OF THE OBJECTIVE LENS ON THE OPTICAL PICK-UP BLOCK.



- Caution: Invisible laser radiation when open and interlocks defeated avoid exposure to beam.
- Advarsel: Usynlig laserstråling ved åbning, når sikkerhedsafbrydere er ude af funktion. Undgå udsættelse for stråling.

VAROITUS!

Laiteen Käyttäminen muulla kuin tässä käyttöohjeessa mainitulla tavalla saattaa altistaa käytäjän turvallisuusluokan 1 ylittäville näkymättömälle lasersäteilylle.

WARNING!

Om apparaten används på annat sätt än vad som specificeras i denna bruksanvisning, kan användaren utsättas för osynlig laserstrålning, som överskrider gränsen för laserklass 1.

CAUTION

Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

ATTENTION

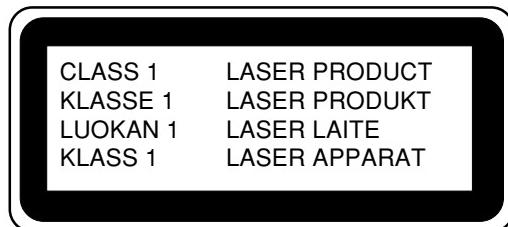
L'utilisation de commandes, réglages ou procédures autres que ceux spécifiés peut entraîner une dangereuse exposition aux radiations.

ADVARSEL

Usynlig laserstråling ved åbning, når sikkerhedsafbrydere er ude af funktion. Undgå udsættelse for stråling.

This Compact Disc player is classified as a CLASS 1 LASER product.

The CLASS 1 LASER PRODUCT label is located on the rear exterior.

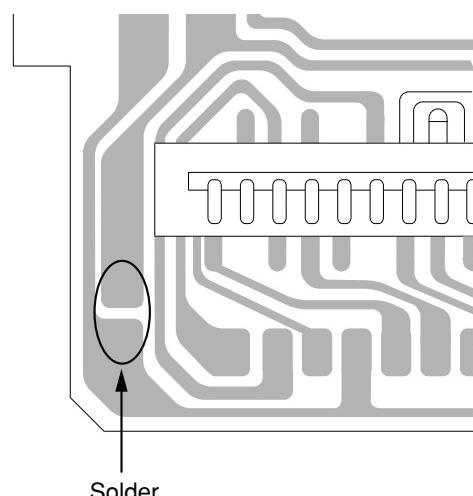


Precaution to replace Optical block (SF-P101NR)

Body or clothes electrostatic potential could ruin laser diode in the optical block. Be sure ground body and workbench, and use care the clothes do not touch the diode.

- 1) After the connection, remove solder shown in the right figure.

PICK-UP Assy P.C.B



ELECTRICAL MAIN PARTS LIST

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
IC				C822	87-010-401-080	CAP, ELECT 1-50V	
	87-A20-955-010	IC, LA1828		C823	87-010-178-080	CHIP CAP 1000P	
	87-A21-064-010	IC, LA4227		C824	87-010-178-080	CHIP CAP 1000P	
	87-A21-520-040	C-IC, M61509FP		C829	87-010-178-080	CHIP CAP 1000P	
	87-A20-446-010	C-IC, LA9241ML		C830	87-010-178-080	CHIP CAP 1000P	
	87-A20-459-010	C-IC, LC78622ED		C834	87-010-248-080	CAP, ELECT 220-10V	
	87-A21-093-010	IC, LA6541D		C843	87-010-197-080	CAP, CHIP 0.01 DM	
	8A-CD9-610-010	C-IC, LC865516A-5L26		C844	87-018-124-080	CAP, CER 270P-50V	
	87-A21-431-010	IC, BA4560N		C845	87-010-178-080	CHIP CAP 1000P	
				C846	87-010-263-080	CAP, ELECT 100-10V	
TRANSISTOR				C851	87-010-186-080	CAP, CHIP 4700P	
	89-327-143-080	TR, 2SC2714 (O) (0.1W)		C852	87-010-178-080	CHIP CAP 1000P	
	87-026-463-080	TR, 2SA933SS (0.3W)		C853	87-018-211-080	CAP, TC U 0.01-50 Z F SA<229>	
	87-026-213-080	CHIP-TR, DTC114YK		CN201	87-099-018-010	CAP, TC U 0.01-50 Z F <220>	
	89-112-965-080	TR, 2SA1296GR (0.75W)		CN801	87-A60-110-010	CONN, 4P V S2M-4W	
	87-026-291-080	TR, DTC124XS		CNA302	8A-CD9-629-010	CONN ASSY, 6P MA-TU	
	89-213-702-080	TR, 2SB1370E		FC201	8A-CD9-620-010	FF-CABLE, 16P FR-MAIN	
	89-318-154-080	TR, 2SC1815Y (0.4W)		JW108	87-003-097-080	COIL, 1.0UH K LAL02	
	89-113-187-080	TR, 2SA1318TU		JW132	87-003-097-080	COIL, 1.0UH K LAL02	
	87-026-239-080	C-TR, DTC114TK		JW133	87-003-097-080	COIL, 1.0UH K LAL02	
	87-026-210-080	C-TR, DTC144EK		L801	87-007-342-010	COIL, OSC 85K BIAS	
	87-026-215-010	TR, DTC114YS		SW801	8Z-CD9-609-010	SW, SL 1-6-2 PS62D01	
	89-317-403-080	TR, 2SC1740SS		CD C.B			
	87-026-464-080	TR, DTC114TS (0.3W)		C30	87-010-260-080	CAP, ELECT 47-25V	
DIODE				C251	87-010-401-080	CAP, ELECT 1-50V	
	87-020-465-080	DIODE, 1SS133 (110MA)		C263	87-010-178-080	CHIP CAP 1000P	
	87-027-703-080	ZENER, HZ7A1L		C264	87-010-178-080	CHIP CAP 1000P	
	87-070-345-080	DIODE, 1N4148		C265	87-010-263-080	CAP, ELECT 100-10V	
	87-A40-648-080	ZENER, MTZJ8.2A		C266	87-010-263-080	CAP, ELECT 100-10V	
	87-A40-234-080	ZENER, MTZJ5.6A		C267	87-010-112-080	CAP, ELECT 100-16V	
	87-017-978-080	DIODE, 1N4003		C268	87-010-112-080	CAP, ELECT 100-16V	
	87-027-702-080	DIODE, ZENER MTZJ6.2C		C271	87-010-221-080	CAP, ELECT 470-10V	
	87-A40-465-010	DIODE, FR202		C272	87-010-221-080	CAP, ELECT 470-10V	
MAIN C.B				C278	87-010-405-080	CAP, ELECT 10-50V	
	C211	87-A11-693-080	C-CAP, 0.15-25V	C279	87-010-385-080	CAP, ELECT 220-25V	
	C212	87-A11-693-080	C-CAP, 0.15-25V	C301	87-016-495-000	CAP, E 3300-25 M SMG	
	C215	87-016-460-080	C-CAP, S 0.22-16 B	C306	87-010-404-080	CAP, ELECT 4.7-50V	
	C216	87-016-460-080	C-CAP, S 0.22-16 B	C307	87-010-401-080	CAP, ELECT 1-50V	
	C231	87-010-213-080	C-CAP, S 0.015-50 B	C308	87-010-221-080	CAP, ELECT 470-10V	
	C232	87-010-213-080	C-CAP, S 0.015-50 B	C311	87-010-404-080	CAP, ELECT 4.7-50V	
	C233	87-A10-201-080	C-CAP, S 0.33-16 KB	C312	87-010-385-080	CAP, ELECT 220-25V	
	C234	87-A10-201-080	C-CAP, S 0.33-16 KB	C321	87-010-197-080	CAP, CHIP 0.01 DM	
	C235	87-016-669-080	C-CAP, S 0.1-25 KB	C322	87-010-263-080	CAP, ELECT 100-10V	
	C236	87-016-669-080	C-CAP, S 0.1-25 KB	C325	87-010-405-080	CAP, ELECT 10-50V	
	C237	87-010-371-080	CAP, E 470-6.3 M SME	C401	87-010-403-080	CAP, ELECT 3.3-50V	
	C239	87-010-197-080	CAP, CHIP 0.01 DM	C402	87-010-197-080	CAP, CHIP 0.01 DM	
	C240	87-010-197-080	CAP, CHIP 0.01 DM	C403	87-010-263-080	CAP, ELECT 100-10V	
	C247	87-010-401-080	CAP, ELECT 1-50V	C404	87-010-248-080	CAP, ELECT 220-10V	
	C248	87-010-401-080	CAP, ELECT 1-50V	C405	87-010-197-080	CAP, CHIP 0.01 DM	
	C310	87-010-248-080	CAP, ELECT 220-10V	C406	87-010-374-080	CAP, ELECT 47-10V	
	C316	87-010-263-080	CAP, ELECT 100-10V	C407	87-010-178-080	CHIP CAP 1000P	
	C317	87-010-197-080	CAP, CHIP 0.01 DM	C408	87-010-198-080	CAP, CHIP 0.022	
	C801	87-010-248-080	CAP, ELECT 220-10V	C409	87-010-248-080	CAP, ELECT 220-10V	
	C805	87-012-365-080	C-CAP, S 0.027-25VBK	C410	87-010-263-080	CAP, ELECT 100-10V	
	C806	87-012-365-080	C-CAP, S 0.027-25VBK	C411	87-A11-177-080	C-CAP, S 0.15-16 KB	
	C807	87-010-405-080	CAP, ELECT 10-50V	C412	87-010-401-080	CAP, ELECT 1-50V	
	C808	87-010-405-080	CAP, ELECT 10-50V	C413	87-016-369-080	C-CAP, S 0.033-25 KB	
	C809	87-010-401-080	CAP, ELECT 1-50V	C414	87-010-405-080	CAP, ELECT 10-50V	
	C810	87-010-401-080	CAP, ELECT 1-50V	C416	87-010-545-080	CAP, ELECT 0.22-50V	
	C811	87-010-178-080	CHIP CAP 1000P	C417	87-012-157-080	C-CAP, S 330P-50 CH	
	C812	87-010-178-080	CHIP CAP 1000P	C418	87-010-213-080	C-CAP, S 0.015-50 B	
	C816	87-010-180-080	C-CER 1500P	C419	87-A11-608-080	C-CAP, S 0.33-25 KB	
	C817	87-010-180-080	C-CER 1500P	C420	87-016-369-080	C-CAP, S 0.033-25 KB	
	C821	87-010-401-080	CAP, ELECT 1-50V	C421	87-A11-177-080	C-CAP, S 0.15-16 KB	
				C422	87-010-184-080	CHIP CAPACITOR 3300P(K)	
				C423	87-010-992-080	C-CAP, S 0.047-25 B	
				C424	87-016-460-080	C-CAP, S 0.22-16 B	

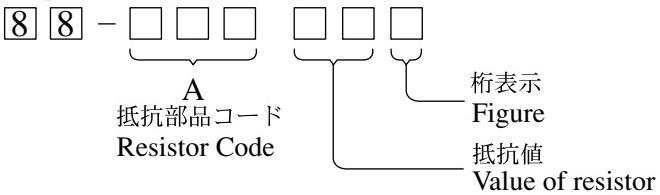
REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C425	87-010-176-080	C-CAP,S 680P-50 SL		FC403	8A-CD9-622-010	FF-CABLE, 8P CD-FR	
C426	87-A11-608-080	C-CAP,S 0.33-25 K B		L401	87-003-102-080	COIL, 10UH	
C428	87-010-197-080	CAP, CHIP 0.01 DM		L404	87-003-152-080	COIL, 100UH	
C429	87-010-186-080	CAP, CHIP 4700P		R840	87-029-124-010	RES,FUSE 2.2-1/4	
C430	87-012-156-080	C-CAP,S 220P-50 CH		SFR430	87-024-437-080	SFR100K, RH063EC	
C431	87-010-545-080	CAP, ELECT 0.22-50V		X401	8Z-CD5-633-010	VIB, CER16.93MHZ FCR16.93M2	
C432	87-010-374-080	CAP, ELECT 47-10V		FRONT C.B			
C433	87-010-401-080	CAP, ELECT 1-50V		C601	87-010-313-080	CAP, CHIP 18P	
C434	87-010-184-080	CHIP CAPACITOR 3300P(K)		C602	87-010-315-080	C-CAP,S 27P-50 CH	
C435	87-010-197-080	CAP, CHIP 0.01 DM		C603	87-010-319-080	C-CAP,S 56P-50 CH	
C436	87-010-374-080	CAP, ELECT 47-10V		C604	87-010-317-010	CHIP CAP,S 39P CH	
C437	87-010-404-080	CAP, ELECT 4.7-50V		C605	87-010-264-040	CAP,E 100-10 5L	
C438	87-012-368-080	C-CAP,S 0.1-50 F		C606	87-010-805-080	CAP, S 1-16	
C439	87-010-178-080	CHIP CAP 1000P		C607	87-010-452-080	C-CAP, 1-16 Z F GRM42-6	
C440	87-010-145-080	C-CAP,S 1P-50 C CH GRM		C608	87-010-401-080	CAP, ELECT 1-50V	
C441	87-010-197-080	CAP, CHIP 0.01 DM		C609	87-010-400-080	CAP, ELECT 0.47-50V	
C442	87-010-313-080	CAP, CHIP 18P		C611	87-A10-189-040	CAP,E 220-10	
C445	87-012-368-080	C-CAP,S 0.1-50 F		C612	87-010-405-080	CAP, ELECT 10-50V	
C446	87-012-368-080	C-CAP,S 0.1-50 F		C613	87-012-368-080	C-CAP,S 0.1-50 F	
C447	87-012-368-080	C-CAP,S 0.1-50 F		C614	87-010-312-080	C-CAP,S 15P-50 CH	
C448	87-010-315-080	C-CAP,S 27P-50 CH		C615	87-010-805-080	CAP, S 1-16	
C450	87-012-140-080	CAP 470P		C616	87-010-805-080	CAP, S 1-16	
C451	87-012-156-080	C-CAP,S 220P-50 CH		C619	87-010-401-080	CAP, ELECT 1-50V	
C455	87-010-247-080	CAP, ELECT 100-50V		CN601	87-099-033-010	16P 6216 H	
C457	87-010-312-080	C-CAP,S 15P-50 CH		CN602	87-099-201-010	CONN,8P 6216 H	
C458	87-010-312-080	C-CAP,S 15P-50 CH		CN604	8A-CD9-623-010	CONN ASSY,4P KEY	
C459	87-010-263-080	CAP, ELECT 100-10V		L603	87-003-098-080	COIL,2.2UH	
C460	87-015-819-080	CAPACITOR,0.01		L604	87-003-098-080	COIL,2.2UH	
C461	87-010-197-080	CAP, CHIP 0.01 DM		L606	87-003-098-080	COIL,2.2UH	
C462	87-010-248-080	CAP, ELECT 220-10V		L607	87-003-098-080	COIL,2.2UH	
C463	87-010-197-080	CAP, CHIP 0.01 DM		L608	87-003-098-080	COIL,2.2UH	
C465	87-010-404-080	CAP, ELECT 4.7-50V		L609	87-003-098-080	COIL,2.2UH	
C466	87-012-368-080	C-CAP,S 0.1-50 F		LED602	88-CD6-630-010	LED,934ID RED	
C467	87-010-263-080	CAP, ELECT 100-10V		LED606	88-CD6-630-010	LED,934ID RED	
C469	87-012-154-080	C-CAP,S 150P-50 CH		LED607	88-CD6-630-010	LED,934ID RED	
C470	87-010-544-080	CAP, ELECT 0.1-50V		LED608	88-CD6-630-010	LED,934ID RED	
C471	87-012-368-080	C-CAP,S 0.1-50 F		LED610	88-CD6-631-010	LED,934GD GRN	
C472	87-012-368-080	C-CAP,S 0.1-50 F		LED611	87-CD8-616-010	LED,SA36-11 HWA-11.0	
C473	87-012-368-080	C-CAP,S 0.1-50 F		S601	87-A91-704-080	SW,TACT EVQ 214 05R	
C474	87-012-368-080	C-CAP,S 0.1-50 F		S602	87-A91-704-080	SW,TACT EVQ 214 05R	
C475	87-010-197-080	CAP, CHIP 0.01 DM		S603	87-A91-704-080	SW,TACT EVQ 214 05R	
C476	87-010-236-080	CAP, E 1000-10 SME		S604	87-A91-704-080	SW,TACT EVQ 214 05R	
C477	87-010-197-080	CAP, CHIP 0.01 DM		S605	87-A91-704-080	SW,TACT EVQ 214 05R	
C478	87-010-263-080	CAP, ELECT 100-10V		S609	87-A91-704-080	SW,TACT EVQ 214 05R	
C479	87-010-197-080	CAP, CHIP 0.01 DM		S611	87-A91-704-080	SW,TACT EVQ 214 05R	
C480	87-010-221-080	CAP, ELECT 470-10V		X601	87-030-273-010	VIB,XTAL 32.768K5PPM	
C481	87-010-405-080	CAP, ELECT 10-50V		X602	87-030-376-080	VIB,CER CSA5.76MG200	
C489	87-012-368-080	C-CAP,S 0.1-50 F		TUNER C.B			
C490	87-012-368-080	C-CAP,S 0.1-50 F		C1	87-010-312-080	C-CAP,S 15P-50V	
C491	87-010-197-080	CAP, CHIP 0.01 DM		C2	87-010-316-080	C-CAP,S 33P-50 CH	
C492	87-010-221-080	CAP, ELECT 470-10V		C3	87-010-312-080	C-CAP,S 15P-50V	
C493	87-010-180-080	C-CAP,S 1500P-50 K B		C4	87-010-148-080	C-CAP,S 4P-50 C CH GRM	
C494	87-010-197-080	CAP, CHIP 0.01 DM		C5	87-010-378-080	CAP, ELECT 10-16V	
C501	87-012-368-080	C-CAP,S 0.1-50 F		C7	87-012-156-080	C-CAP,S 220P-50 J CH GRM	
C502	87-010-322-080	C-CAP,S 100P-50 CH		C8	87-010-197-080	CAP, CHIP 0.01 DM	
C503	87-010-322-080	C-CAP,S 100P-50 CH		C9	87-010-311-080	CAP 12P	
C504	87-010-322-080	C-CAP,S 100P-50 CH		C10	87-010-197-080	CAP, CHIP 0.01 DM	
C505	87-010-322-080	C-CAP,S 100P-50 CH		C11	87-010-152-080	C-CAP,S 8P-50 CH	
C506	87-010-322-080	C-CAP,S 100P-50 CH		C12	87-010-314-080	C-CAP,S 22P-50V	
C510	87-016-669-080	C-CAP,S 0.1-25 K B		C13	87-010-322-080	C-CAP,S 100P-50 CH	
C831	87-010-198-080	CAP, CHIP 0.022		C14	87-010-148-080	C-CAP,S 4P-50 C CH GRM	
CN202	8A-CH4-689-010	CONN,3P V 2.5		C15	87-016-669-080	C-CAP,S 0.1-25 K B	
CN205	87-A60-109-010	CONN,2P V S2M-2W		C16	87-010-178-080	CHIP CAP 1000P	
CN301	8A-CH4-689-010	CONN,3P V 2.5		C17	87-016-669-080	C-CAP,S 0.1-25 K B	
CN401	87-A60-424-010	CONN,16P V TOC-B		C18	87-010-197-080	CAP, CHIP 0.01 D M	
CN403	87-099-201-010	CONN,8P 6216 H		C19	87-016-669-080	C-CAP,S 0.1-25 K B	
CN802	8A-CH4-687-010	CONN,4P V 2.5					
CNA402	8A-CD9-625-010	CONN ASSY,6P CD-ME					
FC401	8A-CD9-621-010	FF-CABLE, 16P CD-RF					

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C20	87-010-400-080		CAP, ELECT 0.47-50V	H.P. C.B			
C21	87-010-403-080		CAP, ELECT 3.3-50V	CN204	87-A60-685-010	CONN, 4P H WHT EH	
C22	87-010-197-080		CAP, CHIP 0.01 DM	CN605	87-A60-114-010	CONN, 4P H S2M-4WR	
C24	87-010-197-080		CAP, CHIP 0.01 DM	CNA203	8A-CD9-628-010	CONN ASSY, 3P MA-HP	
C25	87-010-197-080		CAP, CHIP 0.01 DM	J251	87-A60-569-010	JACK, HTJ-035-18	
C26	87-016-669-080		C-CAP, S 0.1-25 K B	S606	87-A91-704-080	SW, TACT EVQ 214 05R	
C27	87-016-669-080		C-CAP, S 0.1-25 K B	S607	87-A91-704-080	SW, TACT EVQ 214 05R	
C28	87-010-992-080		C-CAP, S 0.047-25 B	S608	87-A91-704-080	SW, TACT EVQ 214 05R	
C29	87-010-992-080		C-CAP, S 0.047-25 B	S614	87-A91-704-080	SW, TACT EVQ 214 05R	
C30	87-010-248-080		CAP, ELECT 220-10V	S615	87-A91-704-080	SW, TACT EVQ 214 05R	
C31	87-010-379-080		CAP, ELECT 22-16V	POWER C.B			
C32	87-010-197-080		CAP, CHIP 0.01 DM	C901	87-010-192-080	C-CAP, S 0.022-50 F	
C33	87-010-197-080		CAP, CHIP 0.01 DM	C902	87-010-192-080	C-CAP, S 0.022-50 F	
C34	87-010-197-080		CAP, CHIP 0.01 DM	C903	87-010-192-080	C-CAP, S 0.022-50 F	
C35	87-010-197-080		CAP, CHIP 0.01 DM	C904	87-010-192-080	C-CAP, S 0.022-50 F	
C36	87-010-263-080		CAP, ELECT 100-10V	CNA901	8A-CD9-627-010	CONN ASSY, 3P PWR	
C37	87-010-197-080		CAP, CHIP 0.01 DM	△ PR901 87-A90-092-080 PROTECTOR, 2.5A 491			
C51	87-010-197-080		CAP, CHIP 0.01 DM				
C56	87-010-148-080		CAP, CHIP S 4P-50V				
CF1	87-A90-128-010		FLTR, AM IF CFAL-455				
CF2	87-008-261-010		FILTER, SFE10.7MA5-A	BATT C.B			
CF3	87-008-261-010		FILTER, SFE10.7MA5-A				
CN2	87-A60-116-010		CONN, 6P H S2M-6WR	VOLTAGE C.B			
D3	87-A40-128-080		C-VARI-CAP, HVU202A				
L2	87-A50-560-010		COIL, FM BPF(ACD)	△ SW901 87-036-389-010 SW, PUSH 1-1-1 R8120125			
L3	8A-CD9-660-010		BAR-ANT, MW 2B-ACD(COI)				
L4	87-A50-562-010		COIL, FM RF EX(ACD)	MOTOR C.B			
L5	87-A50-564-010		COIL, FM OSC EX(ACD)				
L6	87-A50-337-010		COIL, AM OSC (TOKO)				
L7	87-A50-579-010		COIL, AM IFT(ACD)				
L8	87-A50-335-010		COIL, FM IFT (TOKO)	M2	9X-262-576-910	MOTOR GEAR ASSY	
L9	87-A50-577-010		COIL, FM DET(ACD)	PIN3	91-564-722-110	CONNECTOR 6P	
L10	87-005-849-080		COIL, 10UH(CECS)	SW1	91-572-085-120	LEAF SW	
PVC1	87-A91-167-010		TUN-CAP, 20P-160P FA-22125 N000				
SW1	87-A91-548-010		SW, SL-2-3 SK23E01G06				

○チップ抵抗部品コード／CHIP RESISTOR PART CODE

チップ抵抗部品コードの成り立ち

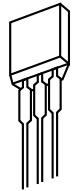
Chip Resistor Part Coding



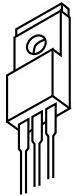
チップ抵抗 Chip resistor

容量 Wattage	種類 Type	許容誤差 Tolerance	記号 Symbol	寸法/Dimensions (mm)				抵抗コード Resistor Code : A
				外形/Form	L	W	t	
1/16W	1005	± 5%	CJ		1.0	0.5	0.35	104
1/16W	1608	± 5%	CJ		1.6	0.8	0.45	108
1/10W	2125	± 5%	CJ		2	1.25	0.45	118
1/8W	3216	± 5%	CJ		3.2	1.6	0.55	128

TRANSISTOR ILLUSTRATION



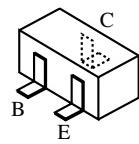
E C B



B C E



E C B



B

C

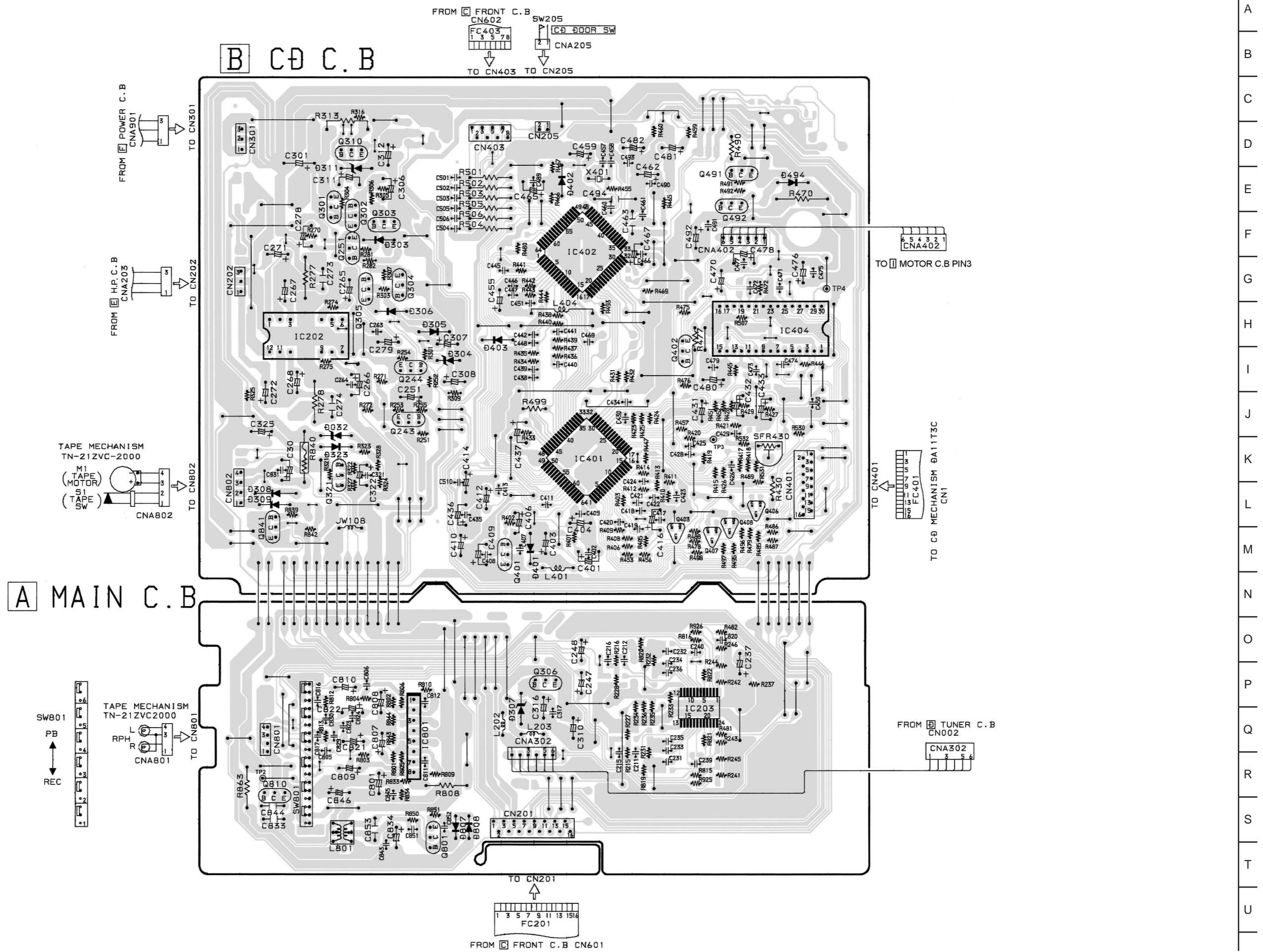
E

2SA933SS
2SC1740SS
DTC114TS
DTC124XS

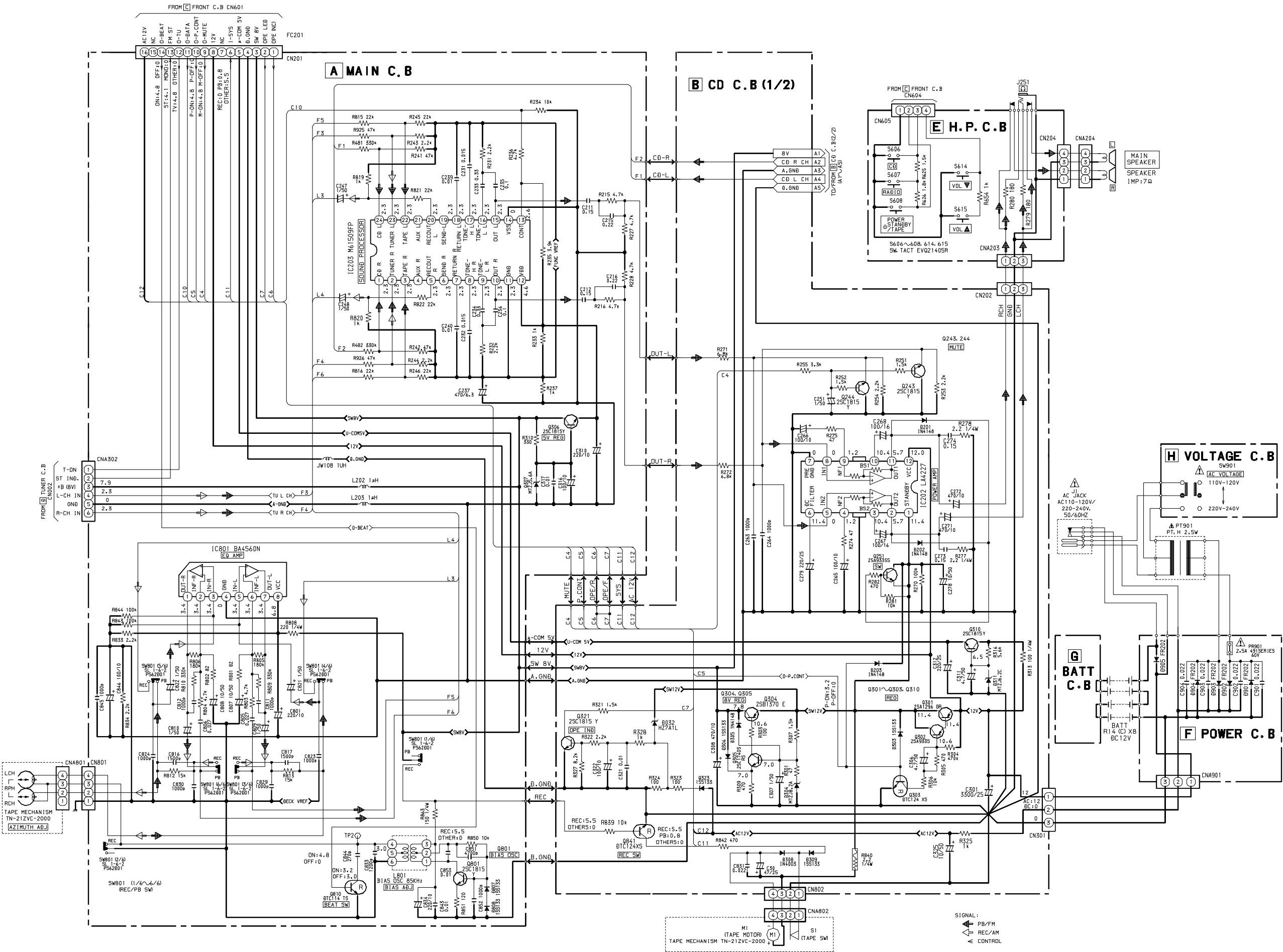
2SB1370E

2SA1296GR
2SA1318TU
2SC1815Y

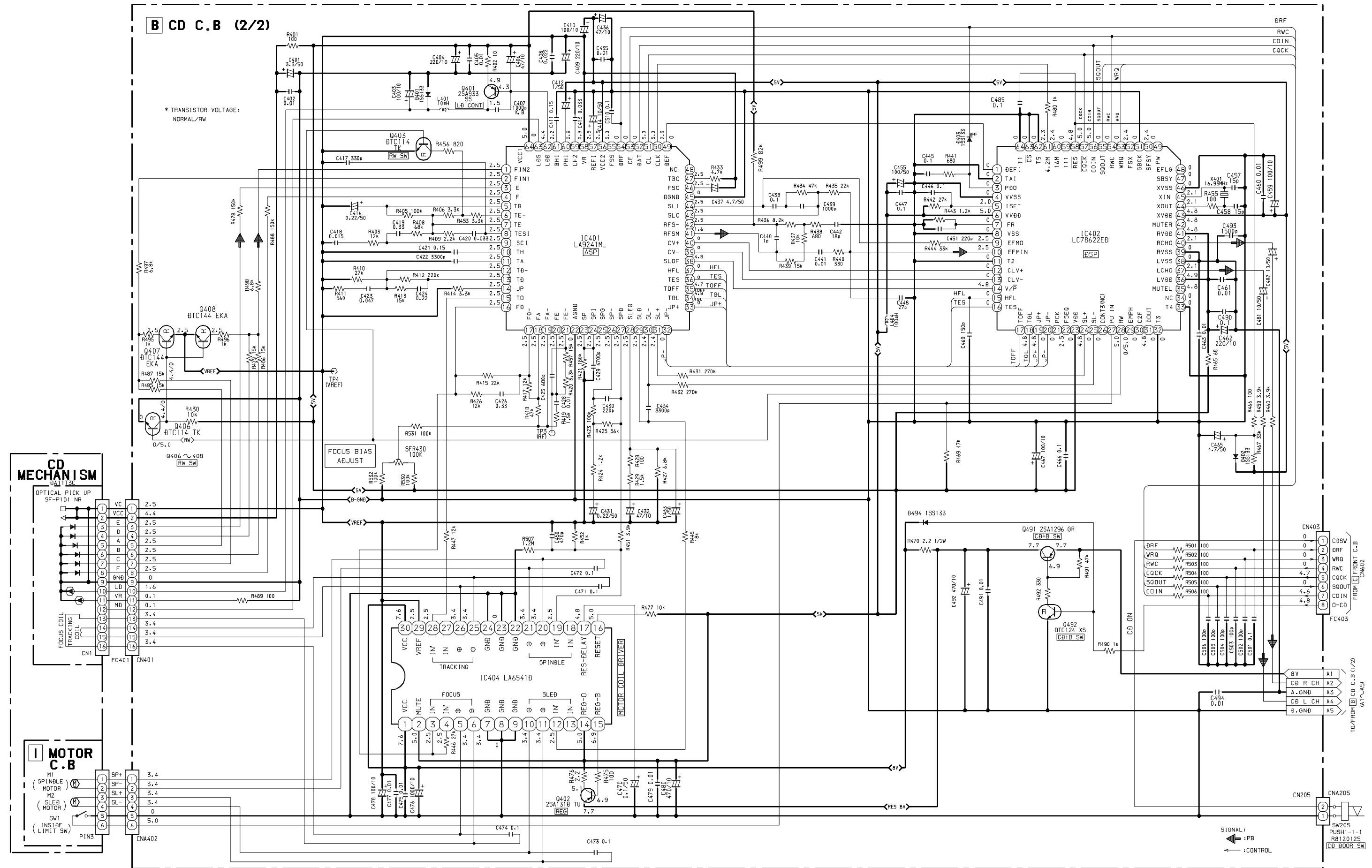
2SC2714
DTC114TK
DTC114YK
DTC114YS
DTC144EK

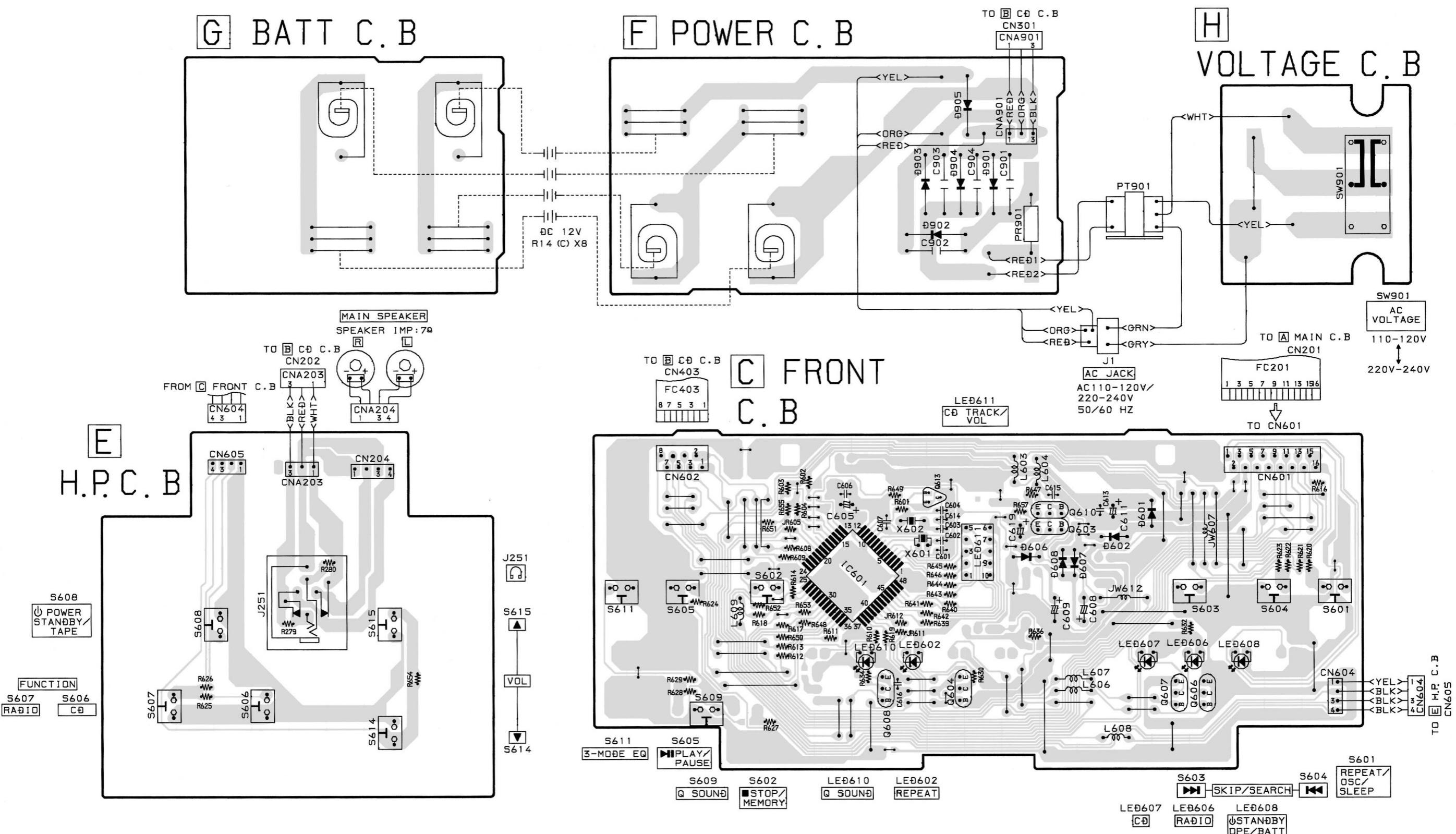


SCHEMATIC DIAGRAM -1 (MAIN / CD : 1 / 2 / H.P. / POWER / BATT / VOLTAGE)

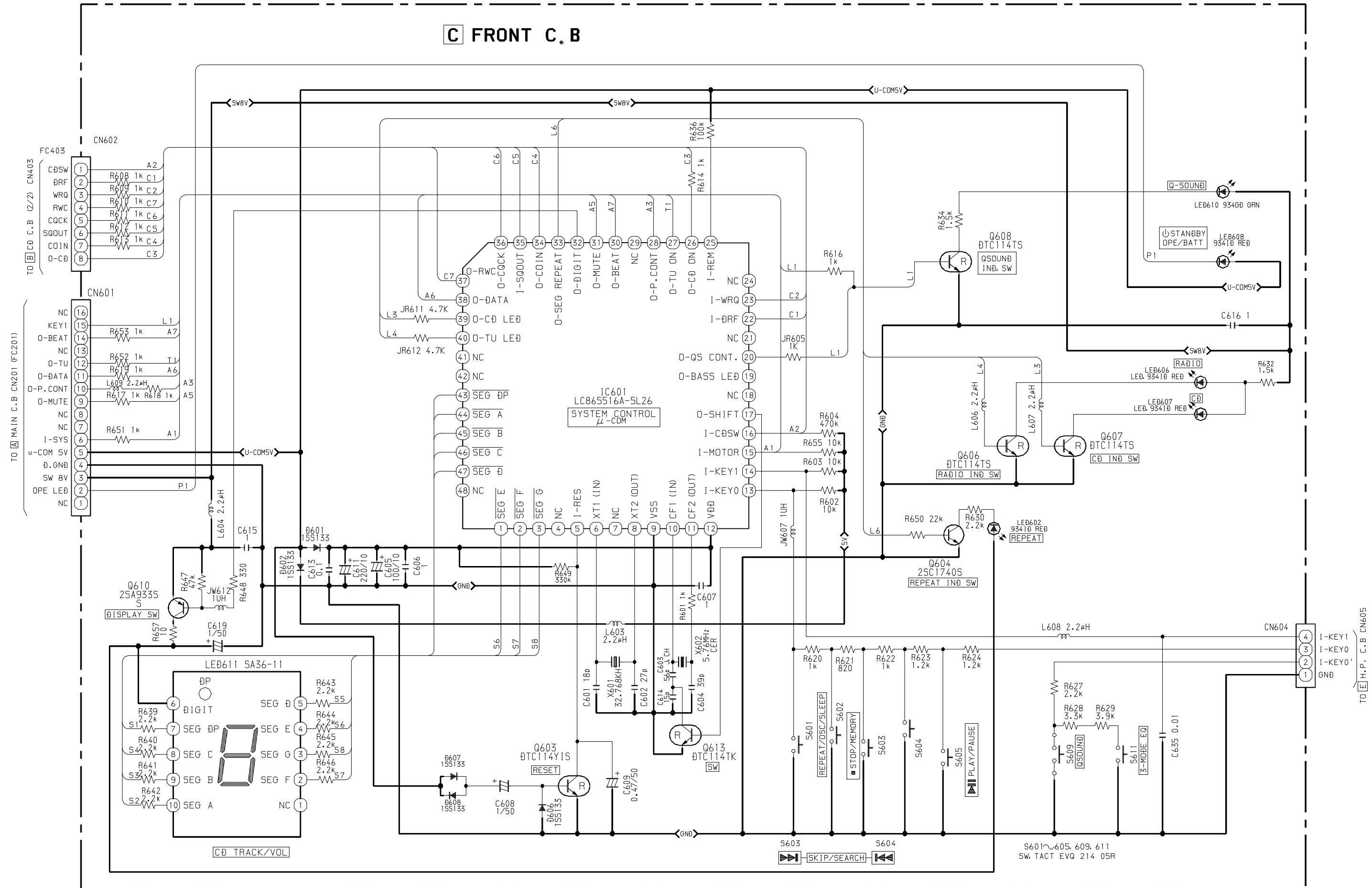


SCHEMATIC DIAGRAM -2 (CD : 2 / 2)



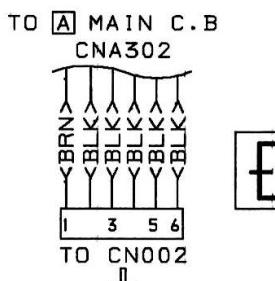


SCHEMATIC DIAGRAM -3 (FRONT)

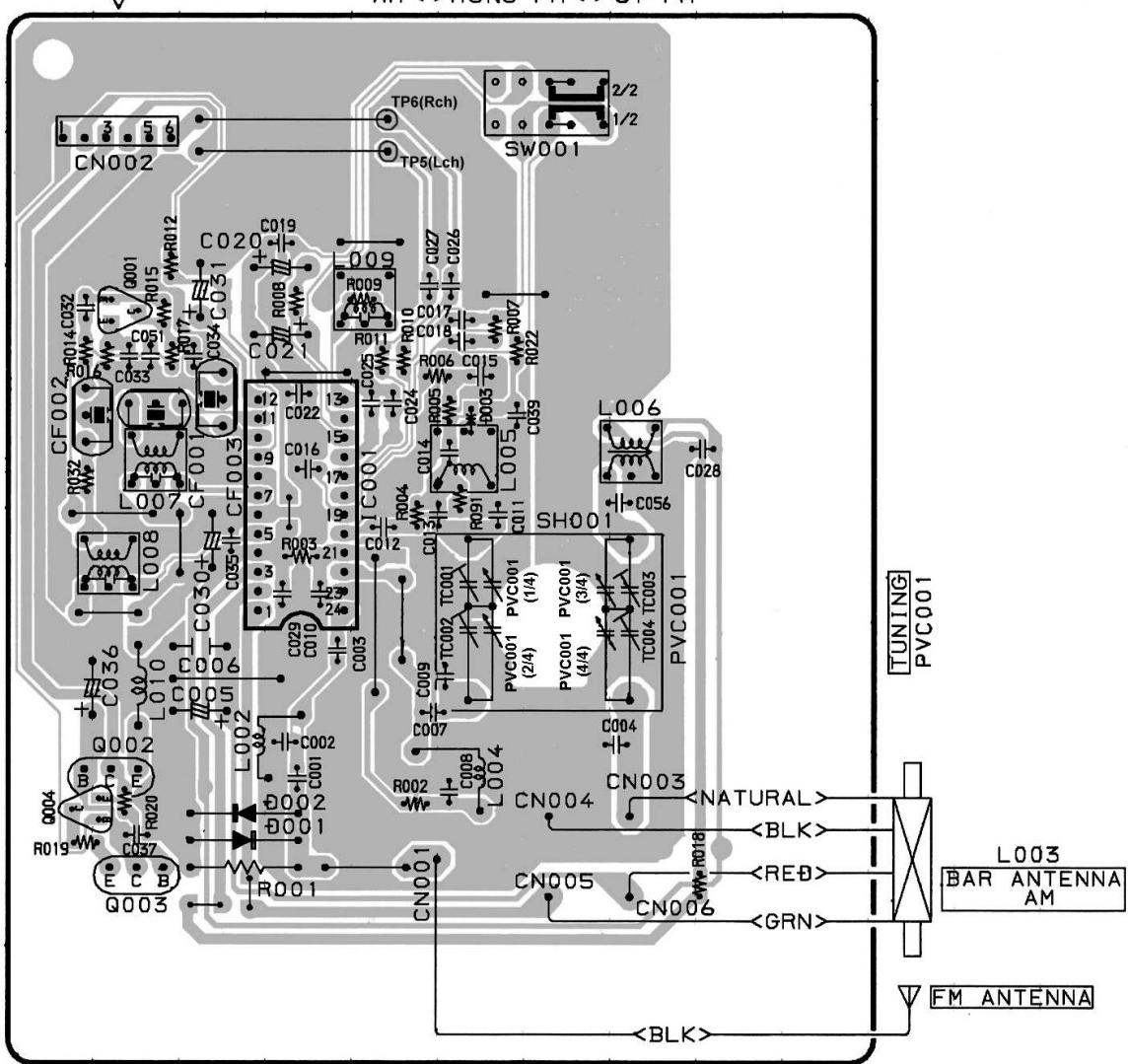


WIRING – 3 (TUNER)

15 | 14 | 13 | 12 | 11 | 10 | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1

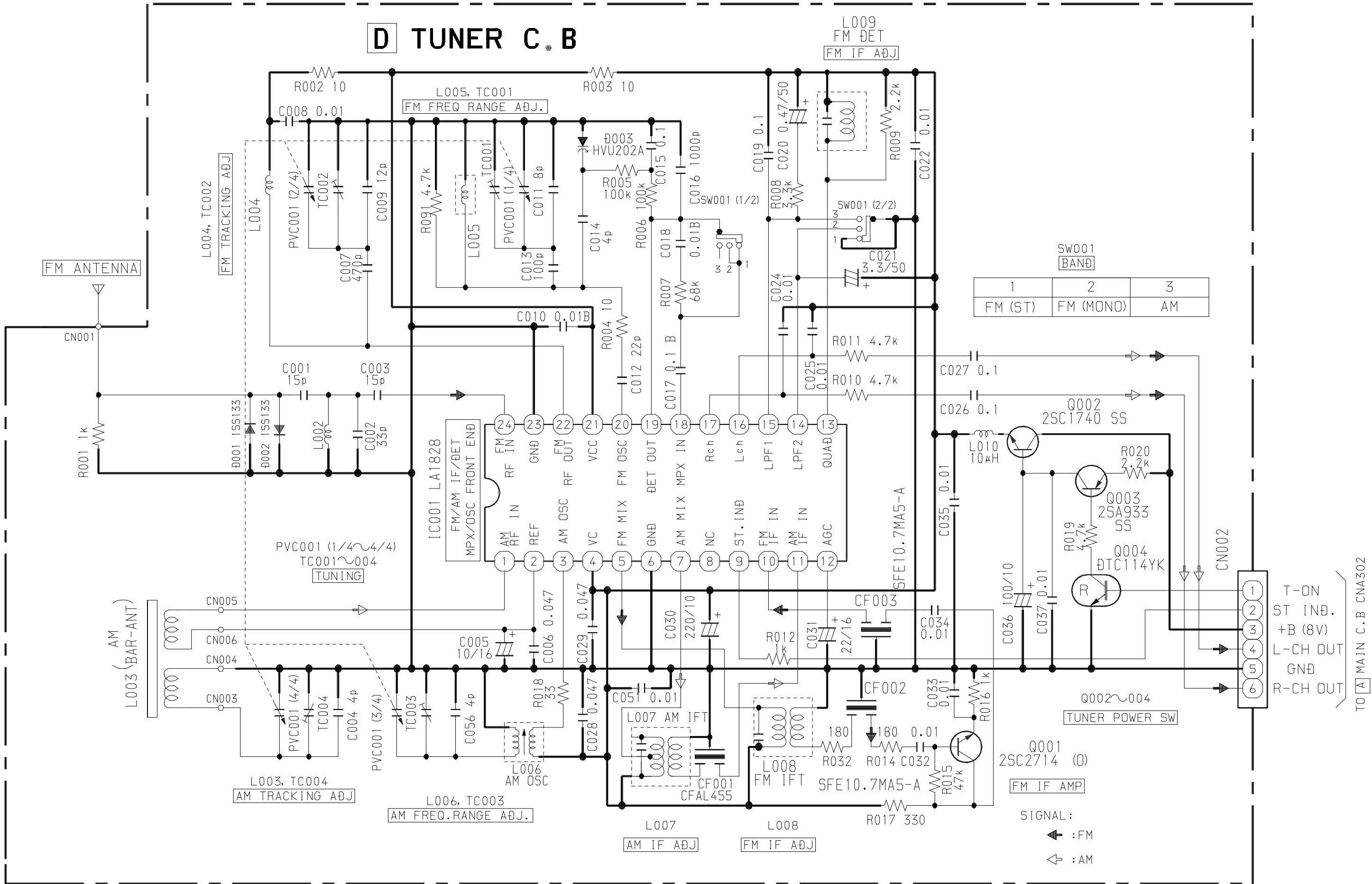


TUNER C. B



A
B
C
D
E
F
G
H
I
J
K
L
M
N
O
P
Q
R
S
T
U

SCHEMATIC DIAGRAM -4 (TUNER)

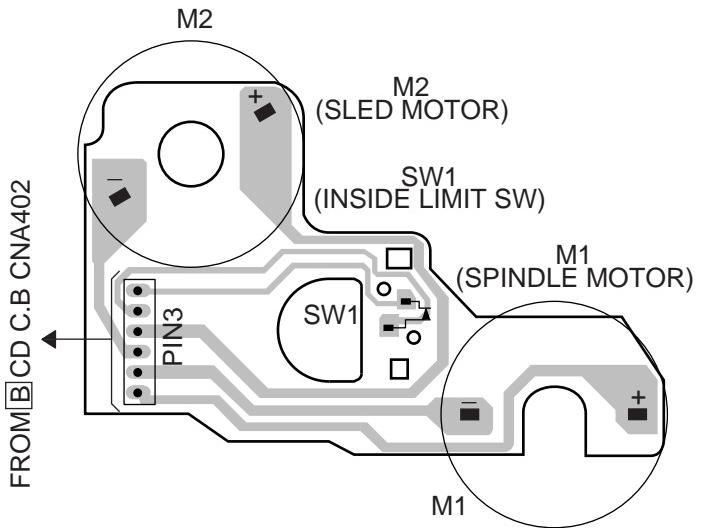


WIRING – 4 (MOTOR)

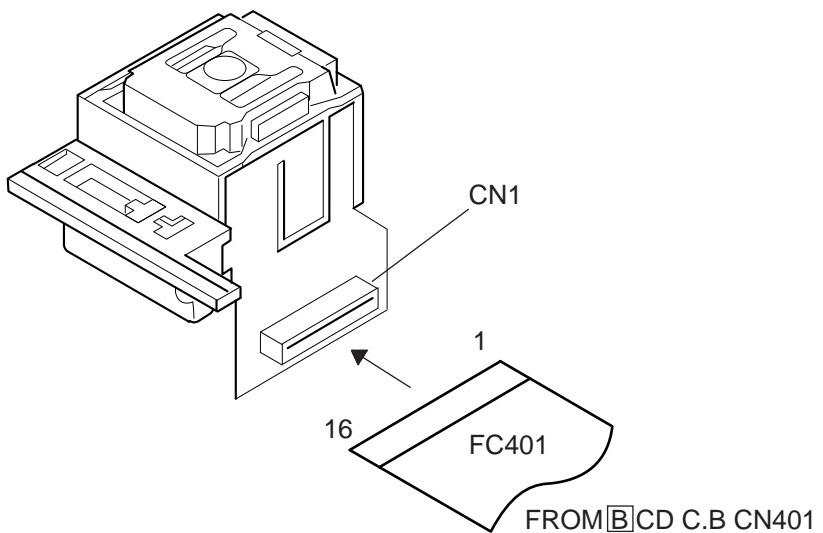
15	14	13	12	11	10	9	8	7	6	5	4	3	2	1
----	----	----	----	----	----	---	---	---	---	---	---	---	---	---

A
B
C
D
E
F
G
H
I
J
K
L
M
N
O
P
Q
R
S
T
U

I MOTOR C.B

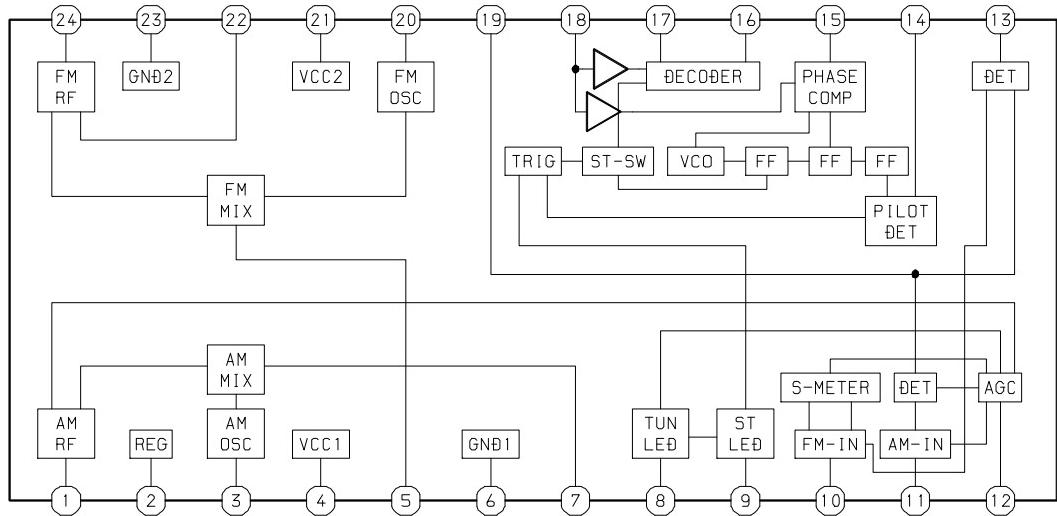


PICK UP ASSY
SF-P101NR

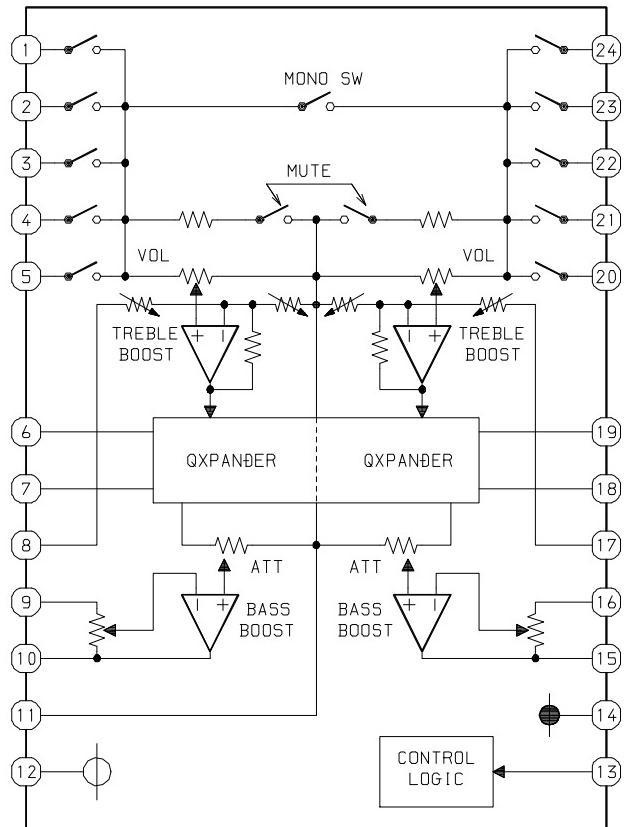


IC BLOCK DIAGRAM

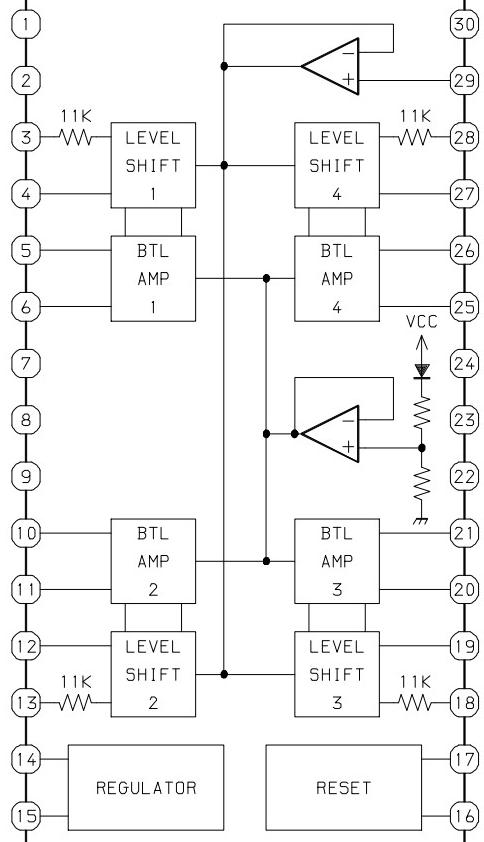
IC, LA1828



IC, M61509FP



IC, LA6541D



IC DESCRIPTION

IC, LC78622ED

Pin No.	Pin Name	I/O	Description
1	DEFI	I	Defect detection signal (DEF) input.
2	TAI	I	Test input. A pull-down resistor is built in. Must be connected to 0V.
3	PDO	O	External VCO control phase comparator output.
4	VVSS	-	Internal VCO ground. Must be connected to 0V.
5	ISET	O	PDO output current adjustment resistor connection.
6	VVDD	-	Internal VCO power supply.
7	FR	I	VCO frequency range adjustment.
8	VSS	-	Digital system ground. Must be connected to 0V.
9	EFMO	O	Slice level control; EFM signal output.
10	EFMIN	I	Slice level control; EFM signal input.
11	T2	I	Test input. A pull-down resistor is built in. Must be connected to 0V.
12	CLV+	O	Disc motor control output. Three-value output is also possible when specified by microprocessor command.
13	CLV-		
14	V/P	O	Rough servo/phase control automatic switching monitor output. Outputs a high level during rough servo and a low level during phase control.
15	HFL	I	Track detection signal input. This is a Schmitt input.
16	TES	I	Tracking error signal input. This is a Schmitt input.
17	TOFF	O	Tracking off output.
18	TGL	O	Tracking gain switching output. Increase the gain when low.
19	JP+	O	Track jump output. Three-value output is also possible when specified by microprocessor command.
20	JP-		
21	PCK	O	EFM data playback clock monitor. Outputs 4.3218 MHz when the phase is locked. (Not used)
22	FSEQ	O	Synchronization signal detection output. Outputs a high level when the synchronization signal detected from the EFM signal and the internally generated synchronization signal agree. (Not used)
23	VDD	-	Digital system power supply.
24	SL+	O	Serial data command sled signal output terminal from microprocessor.
25	SL-		
26	CONT3	-	Not used.
27	PU IN	I	CD pickup inside limit switch.
28	RW	O	Serial data command sled output terminal from microprocessor.
29	EMPH	O	De-emphasis monitor pin. A high level indicates playback of a de-emphasis disk. (Not used)
30	C2F	O	C2 flag output. (Not used)
31	DOUT	O	Digital output (EIAJ format). (Not used)
32	T3	I	Test input. A pull-down resistor is built in. Must be connected to 0V.
33	T4		
34	NC	-	Unused. Must be left open.
35	MUTEL	O	Left channel one-bit D/A converter mute output. (Not used)
36	LVDD	-	Left channel one-bit D/A converter power supply.
37	LCHO	O	Left channel one-bit D/A converter output.

Pin No.	Pin Name	I/O	Description
38	LVSS	—	Left channel one-bit D/A converter ground. Must be connected to 0V.
39	RVSS	—	Right channel one-bit D/A converter ground. (Must be connected to 0V.)
40	RCHO	O	Right channel onr-bit D/A converter output.
41	RVDD	—	Right channel one-bit D/A converter power supply.
42	MUTER	O	Right channel one-bit D/A converter mute output. (Not used)
43	XVDD	—	Crystal oscillator power supply.
44	XOUT	O	Connections for a 16.9344 MHz crystal oscillator element.
45	XIN	I	
46	XVSS	—	Crystal oscillator ground. (Must be connected to 0V.)
47	SBSY	O	Subcode clock synchronization signal output. (Not used)
48	EFLG	O	C1, C2, sigle an double error correction monitor. (Not used)
49	PW	O	Subcode P, Q, R, S, T, U and W output. (Not used)
50	SFSY	O	Subcode frame synchronization signal output. This signal falls when the subcode are in standby state. (Not used)
51	SBCK	I	Subcode readout clock input. This is a Schmitt input.
52	FSX	O	Output pin for the 7.35 kHz synchronization signal divided from the crystal oscillator. (Not used)
53	WRQ	O	Subcode Q output standby output.
54	RWC	I	Read/write control input. This is a Schmitt input.
55	SQOUT	O	Subcode Q output.
56	COIN	I	Command input pin from control microprocessor.
57	<u>CQCK</u>	I	Input for both the command input acquisition clock and the SQOUT pin subcode readout clock input pin. This is Schmitt input.
58	RES	I	Reset input. This pin must be set low briefly after power is first applied.
59	T11	O	Test output. Leave open. (Normally output a low level). (Not used)
60	16M	O	16.9344 MHz output. (Not used)
61	4.2M	O	4.2336 MHz output.
62	T5	I	Test input. A pull-down resistor is built-in. (Must be connected to 0V.)
63	<u>CS</u>	I	Chip seledt input. A pull-down resistor is built-in. (Must be connected to 0V if not controlled.)
64	T1	I	Test input. No pull-down resistor. (Must be connected to 0V.)

Pin No.	Pin Name	I/O	Description
1	FIN2	O	For the connection of the pickup photodiode. Addition to the FIN1 pin creates an RF signal and subtraction from it create an EF signal.
2	FIN1	O	For the connection of the pickup photodiode.
3	E	O	For the connection of the pickup photodiode. Subtraction from the F pin creates a TE signal.
4	F	O	For the connection of the pickup photodiode.
5	TB	I	Inputs the DC components in the TE signal.
6	TE-	O	For the connection of a resistor which sets the gain of the TE signal between this pin and the TE pin.
7	TE	O	TE signal output.
8	TESI	I	TES (track error sense) comparator input. The TE signal is passed through a BPF.
9	SCI	I	Shock detection input.
10	TH	I	Sets the time constant for the tracking gain.
11	TA	O	TA amp output.
12	TD-	I	Composes the tracking phase compensation constant between the TD and VR pins.
13	TD	O	Sets the tracking phase compensation.
14	JP	I	Sets the amplitude of the tracking jump signal (kick pulses).
15	TO	O	Tracking control signal output.
16	FD	O	Focusing control signal output.
17	FD-	I	Composes the focusing phase compensation constant between the FD and FA pins.
18	FA	O	Composes the focusing phase compensation constant between the FD- and FA- pins.
19	FA-	I	Composes the focusing phase compensation constant between the FA and FE pins.
20	FE	O	FE signal output.
21	FE-	I	For the connection of a resistor which sets the gain of the FE signal between this pin and the TE pin.
22	AGND	O	Ground of analog signals.
23	SP	O	Single-ended output of the signals input to the CV+ and CV- pins.
24	SPI	I	Spindle amp input.
25	SPG	I	For the connection of a resistor which sets the gain in the spindle 12cm mode.
26	SP-	I	For the connection of the spindle phase compensation constant with the SPD pin.
27	SPD	O	Spindle control signal output.
28	SLEQ	I	For the connection of sled phase compensation constant.
29	SLD	O	Sled control signal output.
30	SL-	I	Sled feed signal input from the microprocessor.
31	SL+		
32	JP-	I	Tracking signal input from the DSP.
33	JP+		
34	TGL	I	Tracking gain control signal input from the DSP. Low gain when TGL is "H".
35	TOFF	I	Tracking off control signal input from the DSP. Off when TOFF is "H".
36	TES	O	TES signal output to the DSP.

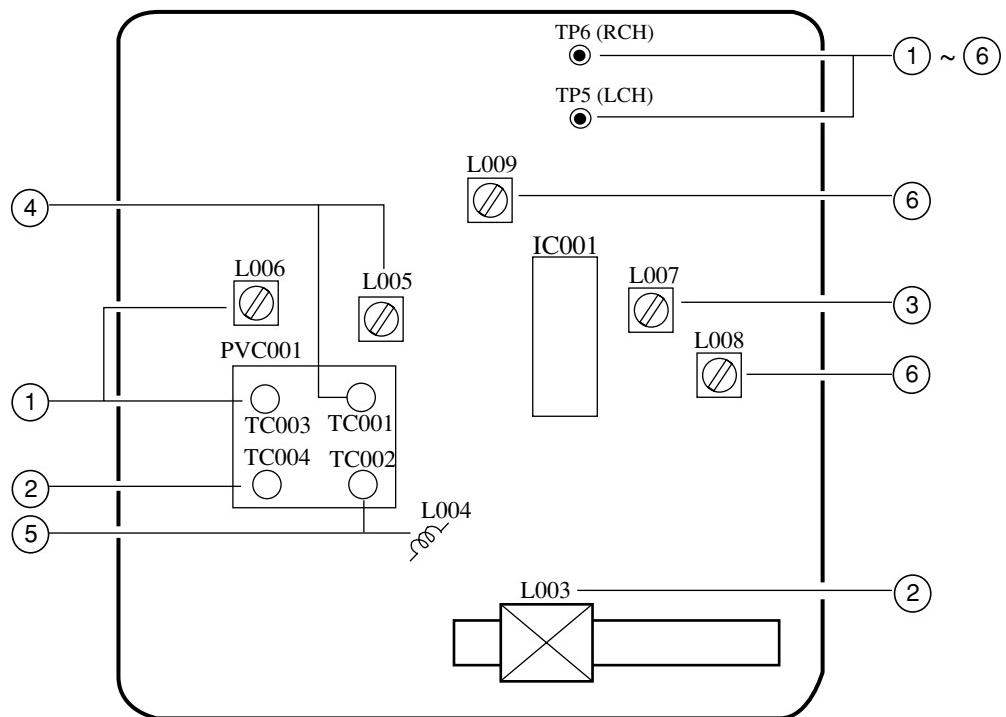
Pin No.	Pin Name	I/O	Description
37	HFL	O	The HFL (high frequency level) signal is used to judge whether the main beam is positioned on the pit or on the mirror.
38	SLOF	I	Sled servo off control input.
39	CV-	I	CLV error signal input from the DSP.
40	CV+		
41	RFSM	O	RF output.
42	RFS-	O	Sets the RF gain and the EFM signal's 3T compensation constant together with the RFSM pin.
43	SLC	O	The SLC (slice level control) signal is output to control the DSP's data slice level of the RF waveform.
44	SL1	I	Input to control the DSP's data slice level.
45	DGND	-	Ground of digital signals.
46	FSC	O	Output for the focus search smoothing capacitor.
47	TBC	I	The TBC (tracking balance control) signal sets the EF balance variation range.
48	NC	-	Not connected.
49	DEF	O	Disc defect detection output.
50	CLK	I	Reference clock input. 4.23 MHz is input from the DSP.
51	CL	I	Microprocessor command clock input.
52	DAT	I	Microprocessor command data input.
53	CE	I	Microprocessor chip enable input.
54	DRF	O	DRF (detect RF) is an output to detect the RF level.
55	FSS	I	The FSS (focus search select) signal switches the focus search modes (+/-search / +search with respect to the reference voltage).
56	VCC2	-	VCC of servo and digital circuits.
57	REF1	-	For the connection of bypass capacitor for the reference voltage.
58	VR	O	Reference voltage output.
59	LF2	-	Sets the time constant for disc defect detection.
60	PHI	-	For the connection of a capacitor to hold the RF signal peak.
61	BHI	-	For the connection of a capacitor to hold the RF signal bottom.
62	LDD	O	APC circuit output.
63	LDS	I	APC circuit input.
64	VCC1	-	VCC of RF signal circuits.

Pin No.	Pin Name	I/O	Description
1	<u>SEG E</u>	O	SEG E control.
2	<u>SEG F</u>	O	SEG F control.
3	<u>SEG G</u>	O	SEG G control.
4	NC	-	Not connected.
5	I-RES	I	Microprocessor reset input.
6	XT1 (IN)	I	Connected to an external 32.768 kHz crystal oscillator.
7	NC	-	Not connected.
8	XT2 (OUT)	O	Connected to an external 32.768 kHz crystal oscillator.
9	VSS	-	GND.
10	CF1 (IN)	I	Connected to an external 5.76 MHz ceramic filter.
11	CF2 (OUT)	O	Connected to an external 5.76 MHz ceramic filter.
12	VDD	-	Microprocessor power supply (+5 V).
13	I-KEY0	I	Key AD input. (AD)
14	I-KEY1	I	Key AD input. (AD)
15	I-MOTOR	I	Deck status input. (AD)
16	I-CDSW	I	CD door switch status input.
17	O-SHIFT	O	Main clock shift output.
18	NC	-	Not connected.
19	O-BASS LED	O	BASS LED ON/OFF control output. (Not used)
20	O-QS CONT	O	Q sound LED ON/OFF control output.
21	O-SFT LED	-	Not used.
22	I-DRF	I	CD RF level detection input.
23	I-WRQ	I	CD subcode Q standby input.
24	NC	-	Not connected.
25	I-REM	I	Remote control input.
26	O-CD ON	O	CD power control output.
27	O-TU ON	O	TU power control output.
28	O-P.CONT	O	The main power supply control output.
29	NC	-	Not connected.
30	O-BEAT	O	Beat sw control output.
31	O-MUTE	O	Main mute output.
32	O-DIGIT	O	7-segment LED power supply control output.
33	O-SEG REPEAT	O	REPEAT LED ON/OFF control output.
34	O-COIN	O	CD command output.
35	I-SQOUT	I	CD subcode Q input.
36	O-CQCK	O	CD command/CLK for subcode.
37	O-RWC	O	CD read/write control output.
38	O-DATA	O	Data output to M61509FP.
39	O-CD LED	O	LED ON/OFF control output for the CD function.
40	O-TU LED	O	LED ON/OFF control output for the TU function.
41	O-TA LED	O	LED ON/OFF control output for the TA function. (Not used)

Pin No.	Pin Name	I/O	Description
42	NC	—	Not connected.
43	<u>SEG DP</u>	O	SEG DP control.
44	<u>SEG A</u>	O	SEG A control.
45	<u>SEG B</u>	O	SEG B control.
46	<u>SEG C</u>	O	SEG C control.
47	<u>SEG D</u>	O	SEG D control.
48	NC	—	Not connected.

ADJUSTMENT < TUNER / DECK / CD >

D TUNER C.B



< RADIO SECTION >

1. AM Frequency Range Adjustment

- Test Point: TP5 (LCH), TP6 (RCH)
- Adjustment location: L006, TC003
- Method:
L006 517kHz
TC003 1750kHz

2. AM Tracking Adjustment

- Test Point: TP5 (LCH), TP6 (RCH)
- Adjustment location: L003, TC004
- Method:
L003 600kHz
TC004 1400kHz

3. AM IF Adjustment

- Test Point: TP5 (LCH), TP6 (RCH)
- Adjustment location: L007
- Method:
L007 455kHz

4. FM Frequency Range Adjustment

- Test Point: TP5 (LCH), TP6 (RCH)
- Adjustment location: L005, TC001
- Method:
L005 87MHz
TC001 109MHz

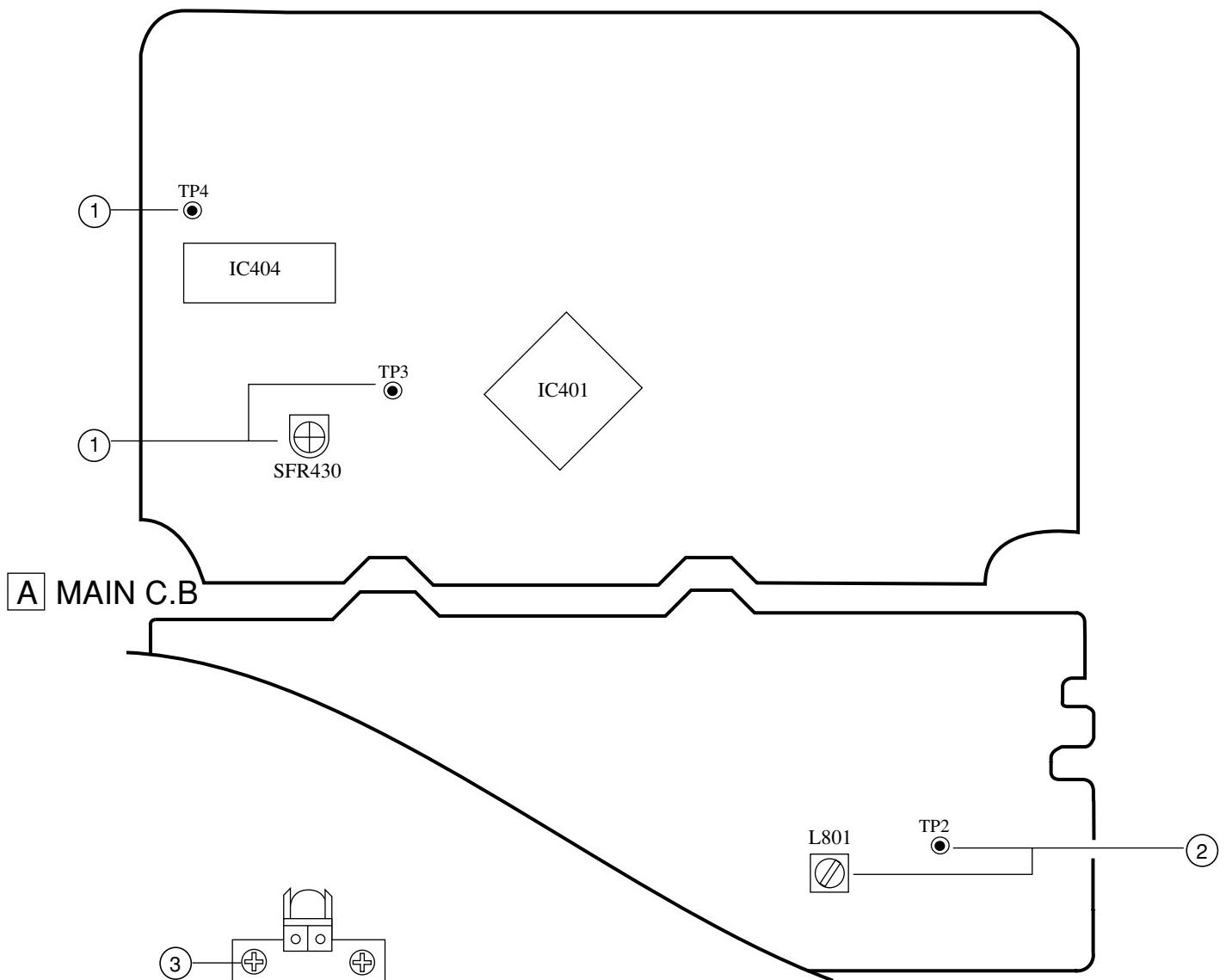
5. FM Tracking Adjustment

- Test Point: TP5 (LCH), TP6 (RCH)
- Adjustment location: L004, TC002
- Method:
L004 88MHz
TC002 108MHz

6. FM IF Adjustment

- Test Point: TP5 (LCH), TP6 (RCH)
- Adjustment location: L008, L009
- Method:
L008, L009 10.7MHz

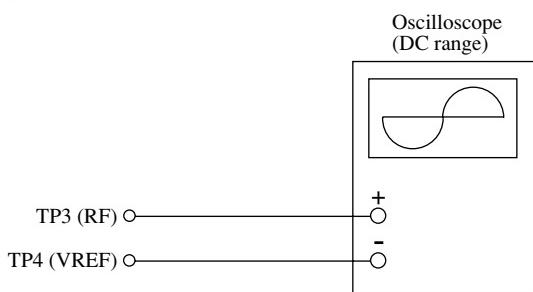
CD C.B



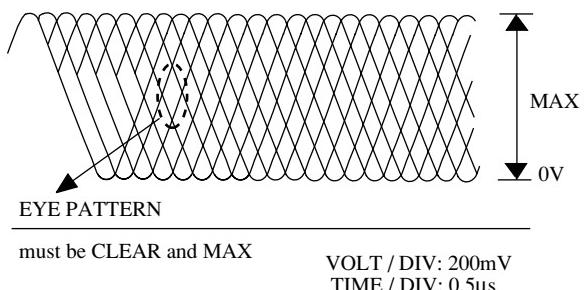
< CD SECTION >

1. Focus Bias Adjustment

Make the focus bias adjustment when replacing and repairing the optical block.



- 1) Connect an oscilloscope to the test point TP3 (RF) and TP4 (VREF).
- 2) Turn on the power switch.
- 3) Insert test disc TCD-782 (YEDS-18) and play back the second composition.
- 4) Adjust SFR430 so that RF signal of the test point TP3 (RF) is MAX and CLEAREST.



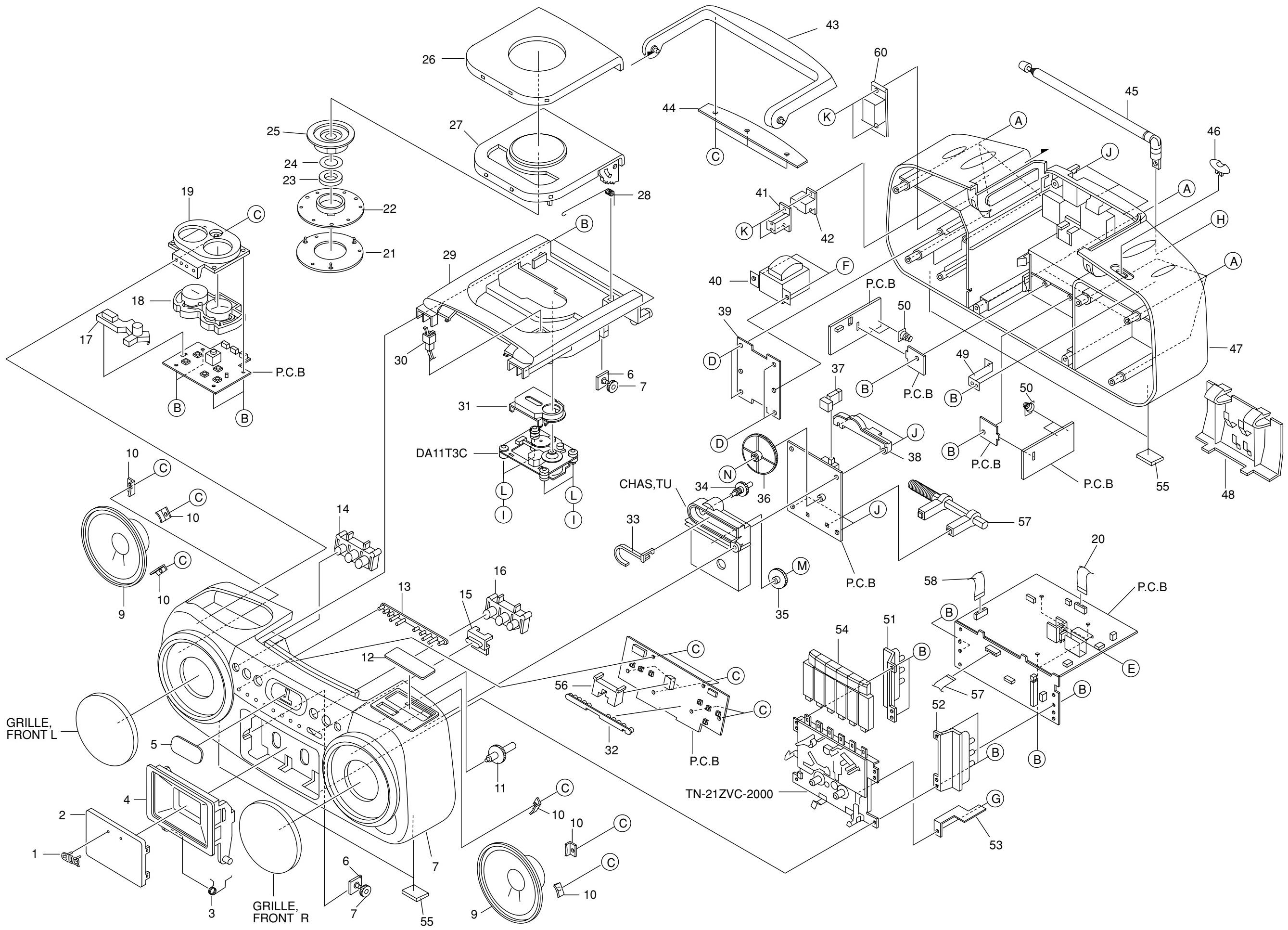
< TAPE RECORDER SECTION >

2. Bias Adjustment

- Test tape: TTA-630
- Test Point: TP2
- Adjustment location: L801
- Method:
L801 $85\text{kHz} \pm 2\text{kHz}$

3. Azimuth Adjustment

- Condition:
- Test tape: TTA-320
 - Test point: PHONE JACK
 - Adjustment location: Azimuth adjustment screw
- Method:
- Play back the test tape and adjust the screw so that the output is maximum.



MECHANICAL PARTS LIST 1 / 1

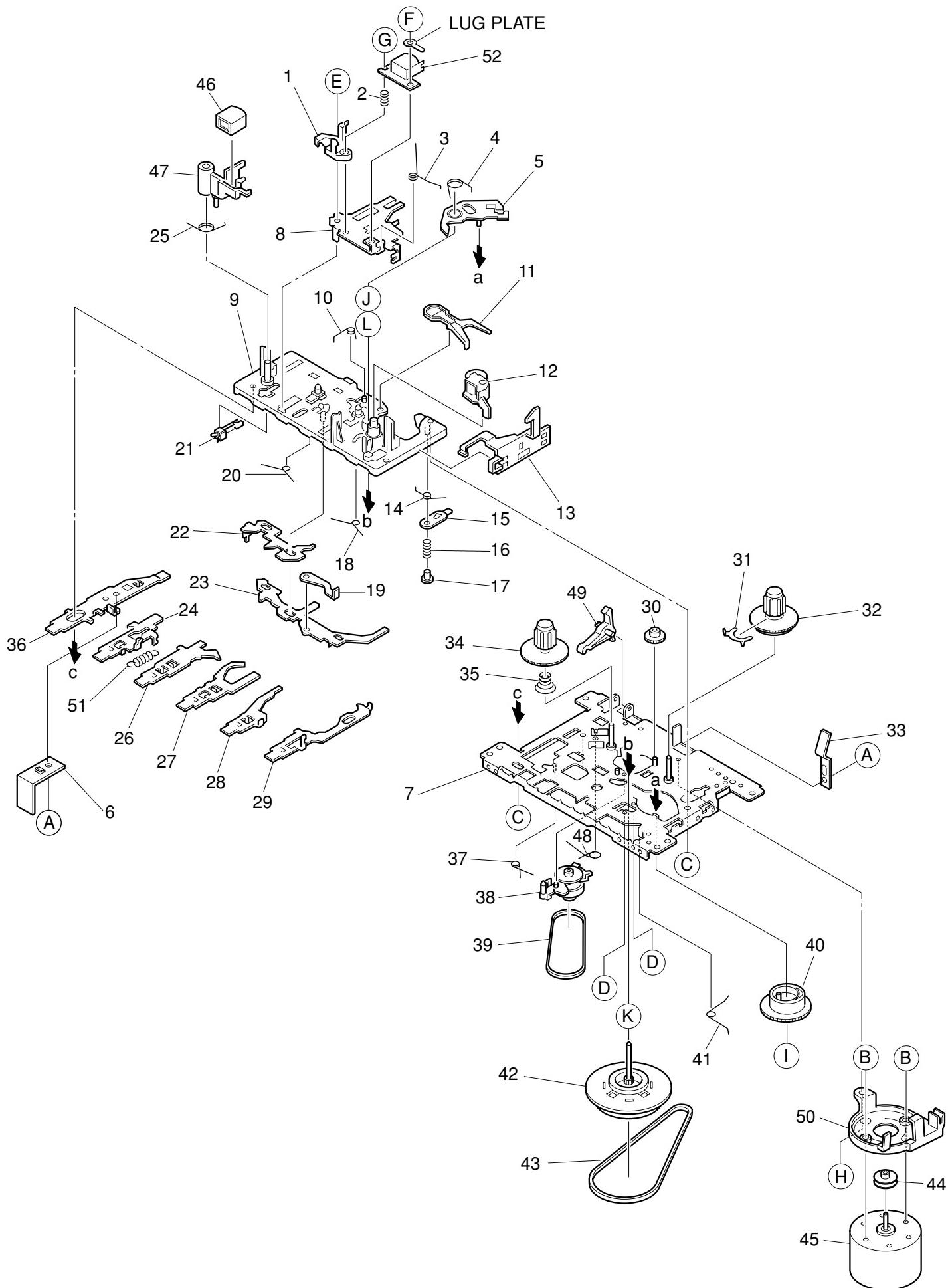
REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	87-B00-010-010		BADGE, AIWA 30.5-5.2 S 2.5L	41	8Z-CD5-634-010		COVER, AC SOCKET
2	8A-CD9-083-010		WINDOW, CASS-X	42	87-A60-178-010		JACK, AC E W/SW
3	8A-CD9-232-010		SPR-T, CASS	43	8A-CD9-012-010		HANDL, GRIP
4	8A-CD9-082-010		BOX, CASS-X	44	8A-CD9-011-010		HANDL, ARM
5	8A-CD9-033-010		WINDOW, LED	45	8Z-CH4-640-010		ANT, ROD
6	84-CD5-216-010		BRACKET	46	8A-CD9-027-010		KNOB, SL BAND
7	84-CD5-215-010		GEAR	47	8A-CD9-004-010		CABI, REAR B1
8	8A-CD9-074-010		CABI, FR B1-2 ASSY	48	8A-CD9-010-010		LID, BATT
9	88-CD9-626-010		SPKR, 100 70HM 3W	49	8A-CD9-221-010		HLDR, ANT
10	8A-CD9-222-010		HLDR, SPEAKER	50	87-CD6-213-010		SPR-C, BATT (-)
11	8A-CD9-026-010		KNOB, RTRY TU	51	8A-CD9-211-010		HLDR, PWB L
12	8A-CD9-034-010		WINDOW, TU U	52	8A-CD9-212-010		HLDR, PWB R
13	8A-CD9-022-010		LENS, LED	53	8A-CD9-223-010		SPR-P, REC TN21
14	8A-CD9-015-010		BTN, CD A	54	8A-CD9-024-010		KEY, CASS TN21
15	8A-CD9-017-010		BTN, QSOUND	55	86-CT4-218-010		CUSHION, FOOT/PORON
16	8A-CD9-016-010		BTN, CD B	56	8A-CD9-201-010		HLDR, DISPLAY
17	8A-CD9-203-010		GUIDE, VOL	57	8A-CD9-620-010		FF-CABLE, 16P FR-MAIN
18	8A-CD9-014-010		BTN, VOL	58	8A-CD9-621-010		FF-CABLE, 16P CD-RF
19	8A-CD9-013-010		PANEL, VOL	59	8A-CD9-660-010		BAR, ANT MW 2B-ACO
20	8A-CD9-622-010		FF-CABLE, 8P CD-FR	60	87-A91-369-010		SW, AC SL 2 2 2 SDKGA41700
21	8Z-CH4-212-010		RING, CHUCK	A	87-B10-242-010		UT2+3-30 W/O CR
22	8Z-CH4-211-010		BASE, CHUCK	B	87-741-096-410		UT2+3-10
23	87-036-368-010		MAGNET	C	87-B10-239-010		QT2+3-8 W/O CR
24	84-CD5-217-010		PLATE, MAGNET	D	87-661-097-410		TAPPING SCREW, VFT1+3-12
25	8Z-CH4-225-010		HLDR, CHUCK A(S)	E	87-751-094-410		VT2+3-6 W10SL0T
26	8A-CD9-081-010		WINDOW, CD-X	F	87-067-566-010		TAPPING SCREW, VFTT+3-6
27	8A-CD9-078-010		BOX, CD LH<EXCEPT 229LH>	G	87-571-033-410		TAPPING SCREW, VIT+2-4
28	8A-CD9-231-010		SPR-T, CD	H	87-255-096-410		U+3-10 NI
29	8A-CD9-005-010		CHAS, CD A	I	87-342-074-010		UT2+2.6-8
30	87-036-389-010		SW, PUSH LOCK	J	87-B10-269-010		UT2+3-12 W/O CR
31	8Z-CDB-169-010		PANEL, CD SANYO	K	87-352-075-210		VT2+2.6-10
32	8A-CD9-202-010		GUIDE, LED	L	87-WA5-253-010		W, 3.3-10-0.8
33	8A-CD9-023-010		POINTER, TU	M	87-661-095-410		VFT1+3-8
34	8A-CD9-207-010		GEAR, TU B	N	87-251-073-410		SCREW, U+2.6-6
35	8A-CD9-206-010		GEAR, TU A				
36	8A-CD9-208-010		DRUM, TU				
37	8A-CD9-209-010		LEVER, BAND A				
38	8A-CD9-205-010		GUIDE, GEAR				
39	8A-CH4-209-010		HLDR, PT				
40	8A-CD9-608-010		PT, H 2.5W				

▲

COLOR NAME TABLE

Basic color symbol	Color	Basic color symbol	Color	Basic color symbol	Color
B	Black	C	Cream	D	Orange
G	Green	H	Gray	L	Blue
LT	Transparent Blue	N	Gold	P	Pink
R	Red	S	Silver	ST	Titan Silver
T	Brown	V	Violet	W	White
WT	Transparent White	Y	Yellow	YT	Transparent Yellow
LM	Metallic Blue	LL	Light Blue	GT	Transparent Green
LD	Dark Blue	DT	Transparent Orange	GM	Metallic Green
YM	Metallic Yellow	DM	Metallic Orange		

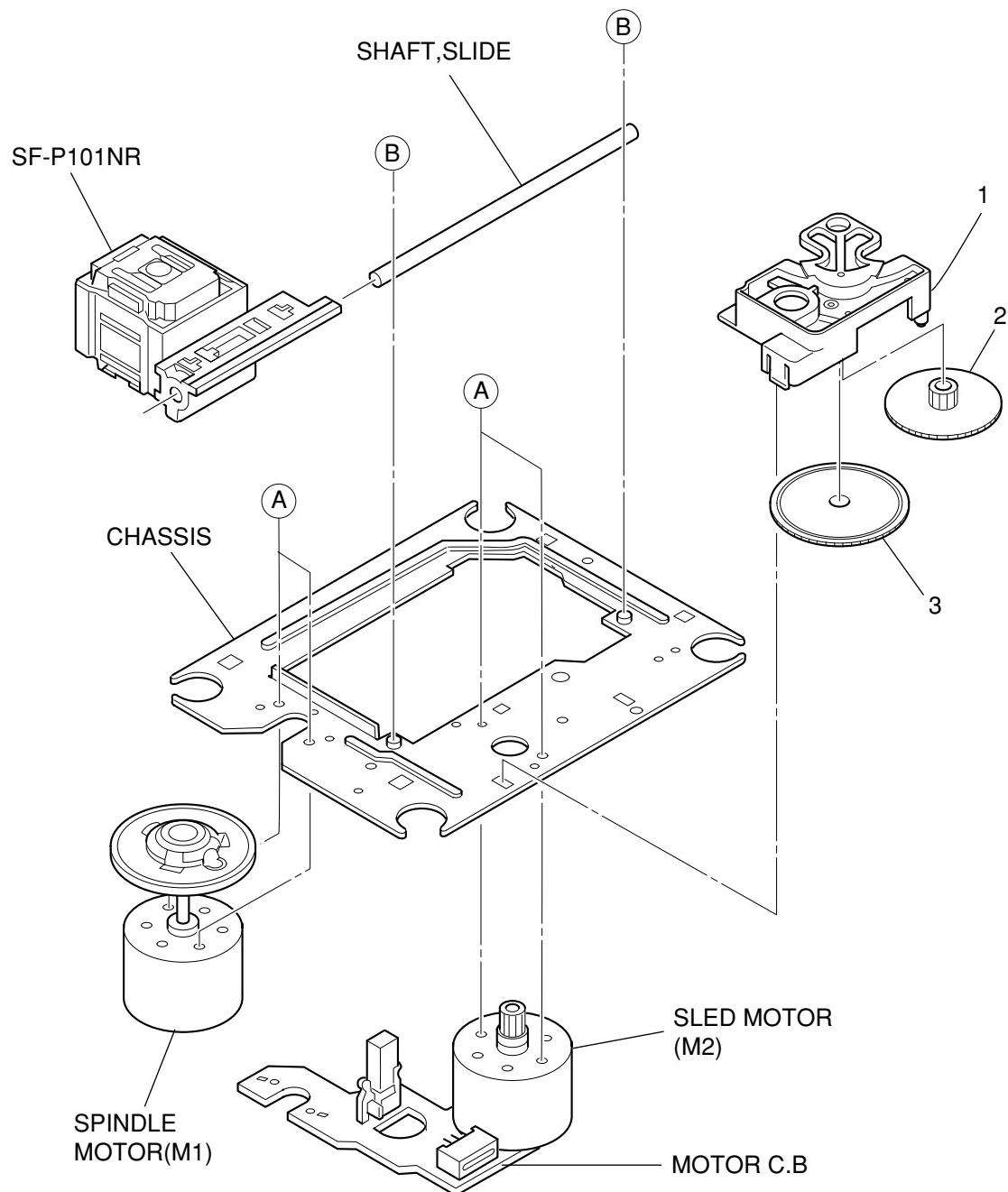
TAPE MECHANISM EXPLODED VIEW 1 / 1



TAPE MECHANISM PARTS LIST 1 / 1

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	S1-921-030-4A0		HEAD BASE	36	S1-921-140-030		REC BUTTON LEVER
2	S1-921-030-070		AZIMUTH SPRING	37	S1-921-140-170		P.S.LEVER SPRING
3	S1-921-030-090		PANEL P SPRING	38	S1-921-073-040		RF CLUTCH ASSY
4	S1-921-260-050		GEAR PLATE SPRING	39	S1-921-070-030		RF BELT
5	S1-921-265-020		GEAR PLATE ASSY	40	S1-921-260-020		CAM GEAR
6	S1-510-020-020		REC SPRING PLATE	41	S1-921-140-160		E ACTUATOR SPRING
7	S1-921-015-010		CHASSIS ASSY	42	S1-921-093-210		FLYWHEEL ASSY
8	S1-921-030-110		HEAD PANEL	43	S1-921-090-380		MAIN BELT
9	S1-921-143-160		BASE ASSY	44	S1-921-120-590		MOTOR PULEY
10	S1-921-141-8A0		M CONTROL SPRING	45	S6-002-030-220		MOTOR EG530AD-2B
11	S1-921-260-4A0		SENSING LEVER	46	S6-209-100-100		E HEAD PH-K380-MS1
12	S1-921-043-100		PINCH ROLLER ARM ASSY	47	S1-921-030-050		MG ARM
13	S1-921-130-010		EJECT SLIDE LEVER	48	S1-921-140-210		REC BUTTON LEVER SPRING
14	S1-921-141-3A0		P CONTROL SPRING	49	S1-821-100-690		RECORD SAFETY LEVER
15	S1-921-140-550		PAUSE LEVER(E)	50	S1-821-128-9A0		MOTOR BRACKET
16	S1-921-140-120		PAUSE LEVER SPRING	51	S1-821-010-500		PLAY BUTTON LEVER SPRING
17	S1-921-140-110		PAUSE STOPPER	52	S6-201-011-110		HEAD,RP7442ES-0951
18	S1-921-140-150		BUTTON LEVER SPRING(B)	A	S9-P04-200-310		C TAPPING SCREW 2-3
19	S1-821-011-590		E KICK LEVER	B	S1-921-120-020		MOTOR COLLER SCREW
20	S1-921-141-070		BUTTON LEVER SPRING(A)	C	S9-B10-200-510		P TAPPING BIND SCREW M2-5
21	S6-401-011-490		LEAF SW MSW-1541T	D	S9-C07-204-510		SCREW,TAPPING(CAMERA)M2-4.5
22	S1-921-140-090		SWITCH ACTUATOR	E	S9-P01-200-610		SCREW,M2-6
23	S1-921-140-080		PUSH BUTTON ACTUATOR	F	S9-B01-200-310		(+)BIND SCREW M2-3
24	S1-921-140-190		PLAY BUTTON LEVER	G	S9-F08-200-710		AZIMUTH SCREW M2-7
25	S1-921-030-100		MG ARM SPRING	H	S1-921-120-030		MB SCREW
26	S1-921-140-040		REW BUTTON LEVER	I	S9-W02-300-100		P WASHER CUT 1.2-3.8-0.3
27	S1-921-140-050		FF,BUTTON REVER	J	S9-W02-500-100		P WASHER CUT 1.45-3.8-0.5
28	S1-921-140-060		STOP BUTTON LEVER	K	S9-W01-400-100		P WASHER 2-3.5-0.4
29	S1-921-140-600		PAUSE BUTTON LEVER	L	S9-W01-130-200		P WASHER 2.1-4-0.13
30	S1-821-100-700		FF GEAR				
31	S1-921-050-060		SENSER				
32	S1-921-053-100		TAKE UP REEL ASSY				
33	S1-829-100-010		PACK SPRING				
34	S1-921-050-150		S REEL HUB				
35	S1-921-050-220		BACK TENSION SPRING				

CD MECHANISM EXPLODED VIEW 1 / 1



CD MECHANISM PARTS LIST 1 / 1

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	S2-121-A28-400		COVER GEAR
2	S2-511-A21-000		GEAR MIDDLE
3	S2-511-A21-100		GEAR, DRIVE
A	S1-PN2-03R-0SE		SCR PAN PCS 2-3
B	87-261-073-410		SCR S-TPG FLT 2.6-6
ALL	M8-ZZK-E90-070		DA11T3C



アイワ株式会社 〒110-8710 東京都台東区池之端1-2-11 ☎03(3827)3111 (代表)
AIWA CO.,LTD. 2-11, IKENOHATA 1-CHOME, TAITO-KU, TOKYO 110, JAPAN TEL:03 (3827) 3111